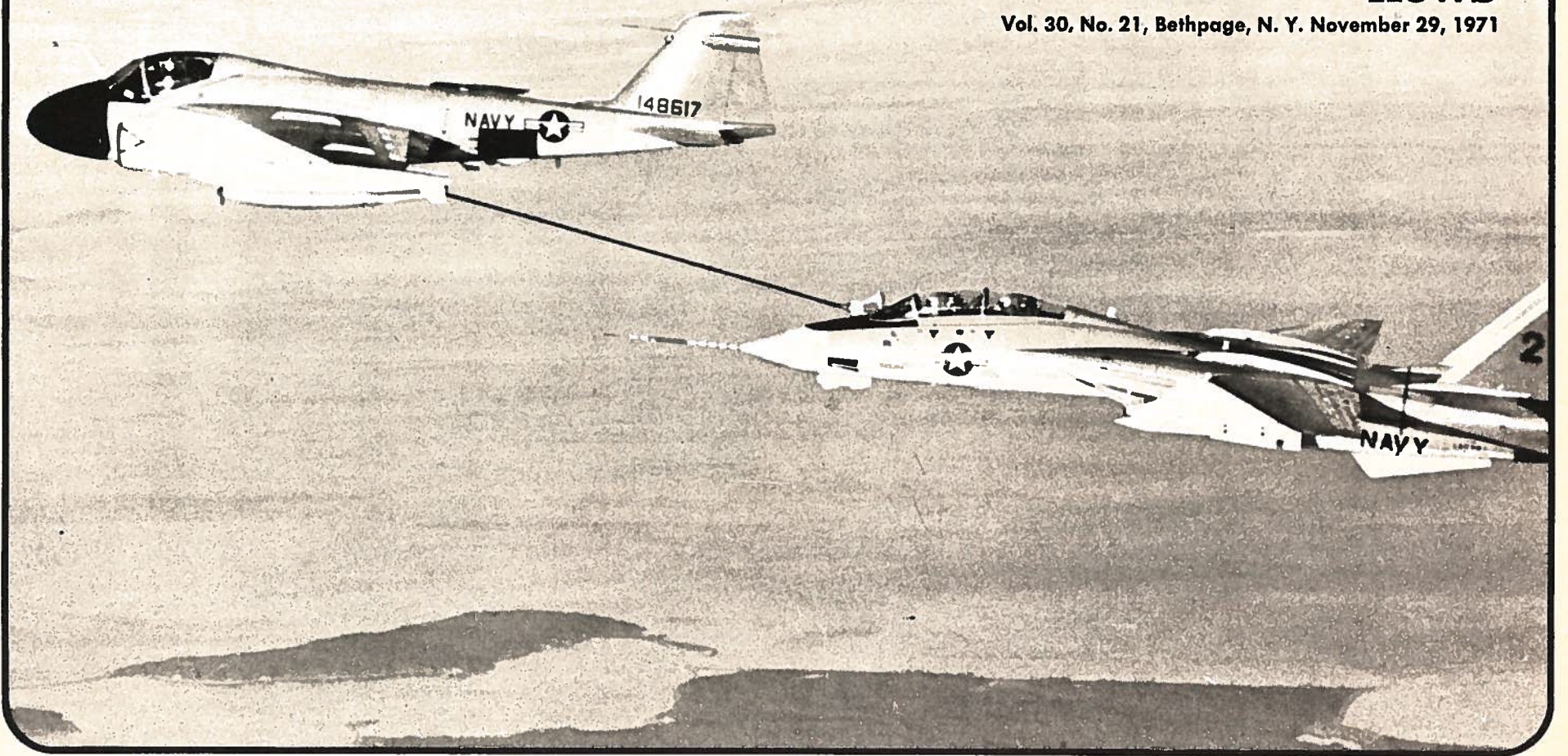




KA-6D providing vital pipeline in the sky for Navy air arm

STUART, FLA.—Mention the KA-6D here and people will tell you it's a remarkable aircraft doing a commendable job in the field, and they're proud of it.

And they're proud, too, of how they've gone about making the "gasoline station in the sky." Dave Seeman, resident manager of Stuart Programs, explains it tersely: "This plant has met the schedule all the time and within cost. What's more, the Navy has been very pleased with the tanker."

If you look just a little deeper, you'll find that there's another reason for pride, one that fans out well beyond the confines of Stuart. The KA-6D operation is a sort of model of interplant and interservice cooperation. Forty-six tankers have been delivered thus far, 42 of them at Stuart. (The first four flew from Calverton.) When the Program went to Stuart, the machined parts for the tanker arrived from Houston and Plant 3 in Bethpage, and the detail parts from Plant 2. That's been the case since August of '69. The long-distance coordination of efforts, says Seeman, "has worked extraordinarily well."

Close cooperation

There's another exceptional case of close cooperation to mention, too, for the tanker modification and acceptance route has not been "standard." As Ron Peterson, KA-6D Program manager, says, "Grumman builds the plane, it's flight-tested and demonstrated by Navy pilots, it's inspected by the U.S. Army (because Stuart is an Army Work Cen-

ter), and accepted by the Navy. So two military services cooperate closely to get the aircraft into the Fleet."

The idea for the A-6 tanker came early in 1966. The notion was: Why not take an A-6A, a proved aircraft, and modify it enough to do inflight refueling work for any aircraft in the Fleet. Certainly, it was reasoned, it would be much less expensive and involve less

time than designing, building, and testing an entirely new aircraft. (Bucks were important then, too.) By mid-'66, Grumman demonstrated the tanker in the skies over Calverton.

In the spring of 1970, the idea turned into hard fact. The first A-6A was inducted into the modification line at Calverton, and a new plane was born.

"Those first four," says Seeman,

"proved their value. As of now, we're scheduled to build eight more, bringing the total to 54."

Seeman emphasized the quality of the work done at Stuart. "My feeling is that our group did a first class job. Our people here really dug in. All of them aimed at quality, and they achieved it. They'll go on achieving it."

(Continued on page 12)

See wide industrial potential for new riveter

A brand new method for riveting the F-14 titanium wing panels is being introduced into production in Plant 3—and on this revolutionary idea hangs a tale.

Basil Leftheris of Research, Plant 5, came to Grumman in 1967 with an idea in the back of his mind for a new method of forming metal by generating a high velocity stress wave. "Call it 'technical intuition,'" he says; "I knew it would work, but I wasn't sure why."

He has never ceased pursuing the "why" but has had to be salesman, cajoler, diplomat, and sleeves-up technician during the past three years that the theory and the tools have been maturing.

Leftheris' enthusiasm caught on at Grumman, and arrangements were made for him to attend Princeton on a part-time basis to work on a Ph.D. to develop this theory. (He already had a Bachelor's and two Master of Science degrees.) His doctoral thesis is now nearly finished

and he (and the Princeton faculty) have a lot more understanding of what happens to make Stress Wave Riveting the success it is proving to be.

Research has continued to support this effort all this time because of its tremendous potential. This feeling of confidence is echoed by Jim Brennan, group head of Structural Design, who calls Stress Wave Riveting "an important development for the immediate future of all aerospace/commercial work."

"The F-14, like all the latest generation of military aircraft," Brennan says, "has a very severe metal fatigue requirement. The most promising method of preventing growth at the edges of rivet holes in high stress areas is to use an 'interference' fastener, a fastener that literally expands and pre-stresses the inner surfaces of the rivet hole. Interference riveting presently requires a 'supersqueezer,' demanding manipulation of the entire wing skin to upset each rivet. Basil's tool is portable, how-

ever, permitting several teams to work on one wing skin simultaneously, as is done in conventional riveting. The cost savings are obvious."

The Leftheris idea, reduced to simplest terms, is this:

Riveting with high-strength fasteners can be done with just a small, portable rivet gun that accepts electrical energy from a capacitor bank (high energy source). In one thousandth of a second, a high velocity stress wave is amplified inside the gun into a mechanical force pulse that causes the rivet to expand in several stages as stress waves pass through it, grabbing the sides of the rivet hole.

"Our method has important advantages over squeezed riveting," says Leftheris. "Stress Wave Riveting is relatively fast and inexpensive, and it's better than squeezing methods, in which the shank and tail are formed simultaneously. In SWR the tail is formed last, and that

(Continued on page 2)

Leftheris 'hunch' is paying off— Grumman to market new riveter

(Continued from page 1)

gives the rivet a chance to fill all the crannies snugly and uniformly. Very important, too, is the fact that the metal neither cracks nor wrinkles nor loses its strength."

Expanding on the action of the stress wave, Leftheris points out that the stress wave has its origin in impingement of an electromagnetic wave on a flat conducting surface inside the gun. Through an especially designed rectifier-amplifier, the stress wave is shaped to produce the desired strain rate for stainless steel

"After all this time of working on something revolutionary, I know this Company does practice the 'open door,'" Leftheris observed recently in going back over the months and years of study and experimentation and tooling up. "We've had a lot of rough spots, but at one time or another we've had personal help from nearly everyone in the front office. Grant Hedrick has been our champion all along, and Bill Zarkowsky has provided continuous support. Even Mr. Towl and Mr. Evans have taken an interest in this project."

"Give Basil a lot of the credit," said Harold Hopkins of Fluid Mechanics Research the other day. "It was his idea, and his perseverance got it all the way to prototype, which is no small task for a device as advanced as this one. Chris Clamser and the rest of the crew in the Research shop are some others who have put themselves into this program from the beginning. In later stages of development, the people within Production and the Facilities Department have been, and continue to be, a great asset."

Tremendous potential

Stress Wave Riveting also has tremendous potential outside the Company, according to Dick Stevenson, Program manager of Special Programs and the one who has the task of getting the system operational. "The use of interference fit fasteners has come into its own throughout the industry," he says, "but the Grumman method is less costly and more reliable than the high-cost specialty fasteners normally used."

The Grumman Legal Department has protected both process and tools by applying for patents, now pending.

Art Capaccio, business manager for Stevenson on this effort, is in the process of negotiating with qualified companies for licensing rights at this time. He and Stevenson are hopeful of significant future profits for Grumman in the form of royalties and subcontracted production work. Says Stevenson, "The potential dollar return for this system could clearly be in the millions."



For F-14. George Freeman (L) and Stan Zadraga of Research shop confer with Basil Leftheris (R) on methods while Joe Williams (below) shows how revolutionary new gun is used to rivet wing panel. (Photos by Fred Annette)



On the beam

The F-14 box beam is electron-beam welded, and for the past year, it has benefited from the Stress Wave Riveter in this application:

Where the electron beam welds begin and end, there is an area in the structure that has to be drilled out and then plugged with oversized stainless steel pins to prevent a crack from starting at the hole. The driving of the pins is done by the riveter without any damage to the structure and without necessity of a special holding fixture. The beam is merely laid on a trolley and the pins driven solidly into the holes, achieving a good "interference" fit without bucking.

rivets. The interchangeable forward end of the gun permits using the same gun for a wide variety of materials—aluminum to titanium. He sees it primarily as a technique to drive interference rivets, but he feels it can also be applied to forging, coining, and stamping.

"For example, we have been using it for a year to drive stainless steel interference pins in the box beam of the F-14 wing, and that has been successful. Research is studying the other possible developments, and who can say what will be developed in the near future?"

Need—not the medium—is message of United Fund campaign

Just for kicks, assume that you have the job of convincing the reluctant or fence-straddling members of the Grumman family to contribute to the United Fund of Long Island. How would **you** approach it?

Would banners and posters on every wall do the trick? You draw a mental picture of that, in living color, so to speak. Your eye wanders to the production floors of Plants 1 and 3, the cubicles in Plants 30 and 25—and you know that's not the way.

How about a flow of audio messages over the loudspeaker systems in Grumman? Maybe. Or would you "turn off" your audience rather quickly . . . and interfere with job performance?

Would printed matter work? Well, it's probably the least offensive medium. But what do you say, what's the message? Contribute because the Company wants you to? Contribute because the

need for services that the United Fund helps to provide is growing by the proverbial leaps and bounds? Give because you may sometime need the services? Give because it's a convenient way to stave off knockers-at-your-doors? Or easy because with payroll deduction you really don't miss the money you've contributed? Give because—

You get the picture: How **do you** convince people to help other people? And, in the process, perhaps help your family, your neighbor . . . or yourself?

Fund goal \$4 million

There are at least 600,000 people on the Island who benefit from United Fund services, and the need for help is growing. That's why the Fund goal is \$4 million this year. The need is that demanding. The question still hangs: How do you convince people to help other people?

Ideally, the answer comes from direct personal contact with the need. Have you gone, for example, to the South Shore Child Guidance Center in Freeport where highly trained personnel treat emotionally disturbed children? Or to the Mental Health Association at Hempstead? Or to the Salvation Army at Blue Point? Or to the Rehabilitation Center for Physically Handicapped at Commack? Or to the Ambulance Association of Bay Shore? Or to the emergency room at Huntington Hospital? Or indeed, to any of the 19 hospitals and 60 voluntary agencies that serve the Nassau-Suffolk community?

Take a couple of hours—more if you can—and visit such a place. And then ask whether you should contribute to the United Fund. . . .

"The United Fund of Long Island has to rank as one of the most worthy organizations we possess," said President

Bill Zarkowsky, who this year is chairman of the Industry Division of Nassau County. "The Fund has proved its value year after year. Its services to people are immeasurable."

In terms of what must be done, all of the support you can give is required. To fall short is to leave someone in jeopardy. Only **you** can prevent that.

Put in more positive form, there's a good line from an Arabian Proverb: "He who has health, has hope; and he who has hope, has everything."

May we ask you to give help, to provide hope? If you have not contributed to the United Fund, why not do it—soon. If, you have any questions, call any of Grumman's Employee Services representatives. When you elect to contribute by the payroll deduction system, just fill out the authorization card and return it to any ESO rep; he'll do the rest.

GRUMMAN, November 29, 1971

OAO nears ^{third} ~~second~~ birthday

On Tuesday, December 7, the Grumman/NASA Orbiting Astronomical Observatory, OAO-2, will mark its third birthday. Pretty good for a scientific satellite for which one single month of successful operation would have satisfied the original mission success requirements. On December 7 it will have completed 36 months of operation and 15,750 orbits of the earth.

"Absolutely as valuable today as when it was launched," asserts OAO Program Manager Ted Moorman. "It's returning completely valid and pertinent data all the time, and every day we're getting information we've never had before. In fact," Moorman emphasized, "we haven't come even close to exhausting the possible scientific observations that could be made by the Wisconsin Experiment instruments."

"All of the fundamental pieces of equipment—about 95 percent of the black boxes aboard," he explained, "are still working. And we can live with the few failures that have occurred because these have spares that have taken over the original duties."

Why have no pictures of the heavens been forthcoming to prove what kinds of information OAO is collecting?

"The Wisconsin University experiment sends back only a string of numbers that are converted to a useful state through calibration," Moorman said. "The Smithsonian experiment, having transmitted pictures of the sky early in the life of the OAO-2, is no longer functioning, having been turned off some time ago."

The Government officially has extended the life of OAO-2 through June of 1972, and Grumman intends to keep it flying for at least long enough to overlap the next vehicle (OAO-C) "by about two months."

OAO-C is at Goddard Space Flight Center in the Clean Room. Its next significant milestone will be acceptance vibration testing in January. Launch from Cape Kennedy is anticipated in June, 1972.

'Coals to Newcastle' . . . really

If you saw someone swiping a couple of pieces of coal behind Plant 10 in the vicinity of the old coal pile there, the story behind the dark deed is this:

Pete Simmons, Program manager of the Large Space Telescope in-house study for the National Aeronautics and Space Administration unmanned satellite, was going to England a couple of weeks ago to visit the firm of Grubb-Parsons, Ltd, in Newcastle-on-Tyne. They had just finished two years of polishing a 155-inch mirror for the Anglo-Australian telescope, first large-aperture telescope in the Southern Hemisphere and a complement of the 200-inch Mount Palomar Observatory telescope in California. "Their facilities are exotic—I was much impressed," Simmons said afterward.

Vice President Ralph Tripp, who has a hobby of rock-cutting, was hit with a brainstorm as they discussed the impending trip. Something about "coals to Newcastle" flickered in his mind. And with Doc Tripp, to get a good public relations idea and not do something about it is quite unthinkable. Hence, the raid on what is left of the old coal pile.

He chose a specimen of the black stuff and polished it and mounted it on a walnut base. A little plaque was added saying "Compliments of the Space Astronomy Team, Grumman Aerospace Corporation, Bethpage," and Simmons carried it to Newcastle.

"Well, they were delighted," Simmons reported. In fact he sent a cable back to the LST team in Plant 25 saying, "Arrived Grubb-Parsons and gave them their lumps. Everybody talks about it but first time anybody did it. Great appreciation. Pete."

The status of the LST at Grumman is that a Request for Proposal for a Phase B study is expected in early spring and the team is working hard on in-house studies. They have moved to new quarters in Plant 25 where the LM Support area was. Chris Witt is Engineering manager.

Its light-gathering capability will be 100 times greater than the Mount Palomar 200-inch telescope because LST will be above the atmosphere, whereas the ground-based instrument must contend with the shimmer of the earth's envelope. Furthermore, Simmons points out, a ground-based telescope averages not more than five hours of nighttime viewing perhaps 200 nights a year, depending on the weather. The LST will be up there looking constantly at stars 100 times fainter than can be seen with a ground-based telescope.

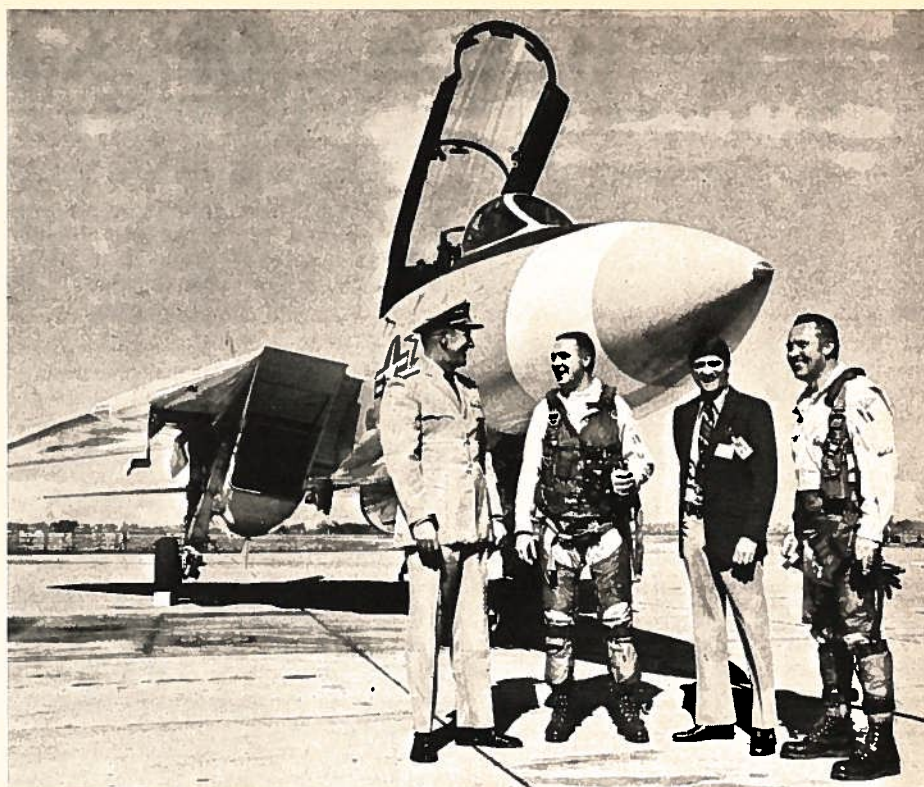
Helping the handicapped

Skills Unlimited, Inc., the workshop and training center for handicapped adults, will sponsor a Christmas Fair on Saturday, December 4, from 10 a.m. to 4 p.m. at the Skills Unlimited facility, 405 Locust Ave., Oakdale.

The sale will include new things as well as old but all will be useful either as Christmas gifts or decorations.

Income from this sale will be used to help in the vocational rehabilitation of the handicapped.

For further information call Skills Unlimited, Inc., 567-3320.



Hello, No. 4. It was a happy group when Tomcat 4, the first of five aircraft ticketed for AWG-9 system deployment, set down at Point Mugu, California. Rear Adm. Howard S. Moore, Commander of the Pacific Missile Range, was there to greet (L to R) Project Pilot Hal Farley, Base Manager Tom Brancati, and Flight Officer Sam Ammons. (Navy photo)

Tomcat at Mugu for testing

Installation of Tomcat 4's weapon system is now well under way at the Company's facility at Point Mugu, Calif. This is the first of five aircraft—numbers 4, 5, 6, 9, and 11—that will be at Point Mugu for weapon and missile testing.

Testing of the "full-up" weapon systems of F-14 No. 4 is scheduled to begin on the Pacific Missile Range about the first of the year. Slightly prior to that, probably about Christmas time, No. 4 will go to Hughes Aircraft, maker of the Phoenix missile.

The first Point Mugu-bound Tomcat arrived at the West Coast facility October 30. Rear Adm. Howard S. Moore, Commander of the Missile Range, and Tom Brancati, Grumman's manager at Mugu, were on hand when No. 4 came into the site.

The integration of avionics and weapon systems as well as the flight development tasks that are normally the roles of the Calverton area on Long Island have been shifted to Point Mugu for two primary reasons: weather, and because the Range affords improved flight test capability and tracking of live targets in a realistic situation out over the expanse of the Pacific Ocean.

The 300 or more people who make up the Grumman group at Mugu are responsible for developing the total weapon system, with Hughes concentrating on their AWG-9 weapon control system. When Tomcat becomes Fleet-worthy, it will be armed with an array of air-to-air missiles plus an M-61 20mm cannon. And it will be the world's premier superiority fighter.



Getting together. Ed Riley (R), who is chief coordinator for Opportunity Development Department, reviews ODD program with Ann English, Jeanette Hagans, Terri Woods, George Fowler, and Harry Walther, coordinators at Plant 1. Plant coordinators, in addition to their full-time jobs, are always available to 'listen' to fellow employees' gripes or problems, and, through other Corporate departments, try to have them cleared up. (Photo by Larry Van Wallendael)

Got an idea for space spinoff? ... Be sure you 'sign in' with NASA

What good is information if nobody knows about it? No good at worst, very little good at best. Because of that, two people in the Company—Armand Affe and Art Haapaniemi—have the job of spreading the word about new developments that flow from the lush springs of technology related to NASA (National Aeronautics and Space Administration) and AEC (Atomic Energy Commission) programs.

"Technology Utilization Program" is the official name for this effort, which aims to transfer to the general public usable technology for business and industry. As a TU pamphlet puts it, "Already a variety of devices, materials, processes, and techniques which may have a non-space use are available to the public. These are by-products of space. They include innovations which accomplish a work objective for the first time, or accomplish it more effectively than ever before."

That's all very well and good—**except** that people sometimes forget to report the innovations . . . and the innovations go down the drain.

Speak up

"That's especially unfortunate," says Affe. "In the first place, a failure to report innovations slows progress and may negatively affect someone else's work. Secondly, since reporting new techniques, processes, materials, and so on is a part of the Company's contract with NASA, it is possible that failing to report may jeopardize Grumman's chances to get a program. Thirdly, by not writing up the improvement or modification, he (or she) misses the chance of getting a cash award from NASA."

Of course, there have been winners. One was Antony Jameson. His idea turned up in a so-called Tech Brief, one of many ways NASA tries to alert people to new technology, and won him a \$25 award. The very complex notion (to the uninitiated—who'd be many!) is, in brief, a theory by which it's possible to calculate, approximately, the whole speed range of a jet. "By using the results of calculations for a square jet to estimate the chordwise variation of the interference downwash," the Tech Brief says, "it is also possible to develop a simplified lifting surface theory for a circular jet."

More winners

Bill Simpson and Hans Kolstee (a summer employee) also collaborated to win a cash award with their space radiation deployment actuator. The function of the actuator is to get rid of heat generated by equipment carried into the space environment.

But these are only a couple of examples of what can be done to improve space-developed technology.

"We hope," says Haapaniemi, "that people working in space-related areas will be alert to the new things they're doing and making. **And then report them to us.** We'll provide them with the Record of New Technology form, which can be filled out in a short time; it's not at all complicated. Then we send it off to NASA. It's that simple."

Don't wonder whether an idea or innovation qualifies. That's part of the job of the Technology Monitoring group, Affe and Haapaniemi. You'll find them on the first floor (southwest corner) of Plant 25. Or call them on Ext. 9282.



Double winner. Vice President Ralph Tripp (R), director of the Lunar Module and Orbiting Astronomical Observatory programs, congratulates Bill Simpson (L) and Hans Kolstee for their space-related innovation that won a NASA award.

Gemuendt: step up 'war' on waste by tightening up on housekeeping

"Waste not, want not," an old adage usually heard in the home, says Charlie Gemuendt, manager of the Industrial Conservation Group, is becoming the slogan of the industrial world.

Now, more than ever, he suggests, we must put all of our efforts into conserving our industrial material resources and eliminate material waste. He gave these hints for conserving materials and supplies:

- Pick up that paper clip, screw, bolt, or rivet that someone else may have dropped and use it.
- Use pencils a little longer, and don't hoard or overstock shop and office supplies.
- Replace writing tablets with obsolete forms for scratch paper.
- Pick up all "dropped" hardware and put it in the proper container; don't leave it for the sweeper.
- Return all empty deposit drums, carboys, and reels as quickly as possible and source segregate scrap aluminum and titanium so that the Company can obtain the highest market price for the scrap material.

Only enough

Another way to help is by ordering only those reproduction copies and forms necessary to do the job. Also, when telephoning long distance, use the WATS line and lock your telephone at the end of your shift. "These are only a few conservation ideas that can apply to the work area," says Gemuendt. "Look around, you'll find other ways to control and eliminate wasteful practices."

Today conservation is not just a word, but a necessity and a new way of our

life. If everyone puts into practice good conservation habits, he says, we would not only be putting back into the Grumman account hundreds of thousands of dollars a year, but also assuring decreased overhead and operating costs.

How can you help?

"Well, one of the ways we can have continued employment, job, and business security and consideration for future business is for each of us to initiate a self-imposed, rigid, conservation effort," says John O'Brien, Administrative Vice President. "The cooperation of every member of the Grumman Corporation is needed in this undertaking. Only through a concerted conservation effort can we continue to be competitive and provide our customer with the best quality at the lowest possible price."

Christmas fund

Now who can resist the pitch from this year's Engineering Christmas Fund Committee, with Ardith Tepedino, Ext. 3587, Dolores Voss, Ext. 7171, and Muriel Leighton, Ext. 2727, heading the annual appeal?

In 1970, Fund contributors gave more than \$5,000, bringing joy to 78 families, including 277 children. If you know of a child or a family in need, you are invited to let a Fund representative know of the circumstances "in time for us to be of some help." This fund and the Product Support effort under Leo Senior's direction find good use for donated turkeys, so if you have an extra one in your family, it can help someone to "eat hearty" for the holidays.



It all helps. Another award winner in NASA's Technology Utilization program went to Antony Jameson (R). Presenting the \$25 check is 'Cappy' Caprioglio, director of Vehicle Technology. (Photos by Fred Annette)

Walt Richter, Gloria Moore top roster of jackpot winners

It must be sunspots or something, but every so often a wave of ideas for saving money comes roaring in, making Grumman idea men (and women) richer than the no-idea men (or women). That's what happened at the end of summer, and the Employee Suggestion Committee awarded \$1,050 to Walter Richter of Cutting Tool Control, Plant 11A, and \$425 to Gloria Moore of Critical Material Control, Plant 21. Peter Alford of KSC Manufacturing Shop, Plant 83, earned a \$400 award. In all, the Committee paid \$4,000 in U.S. Savings Bonds.

Richter, a cutting tool planner, was

working in Plant 5 Machine Shop when he submitted his suggestion. For storage and transportation, standard milling cutters used to be coated, wrapped in paper, and placed in corrugated cartons. It seemed to Richter that this storage system could be simplified, and he suggested using bored wooden blocks to hold standard cutters by their shanks. Whereas the cutters formerly had to be coated, stripped, and wrapped for inspection, sharpening, transportation, and use, they now are protected with plastic tubes and stored by shank diameter in the bored wooden blocks. This incidentally provides visibility of cutter lengths

marked on the cutters.

Richter is a 19-year man now working in Cutting Tool Control. He has won three Project Sterling bond awards "and another that goes 'way back to the Ways & Means era." He has two boys and two girls, ranging from 12 years to 2. "Any plans for the \$1050 worth of bonds?" "Not as yet, but I do need a car," he says cryptically.

Time saver

Gloria Moore's winning idea saves about eight hours a week in tracking the various kinds of purchased material that flow from outside suppliers into Beth-

page and Calverton. Working with report forms in Critical Material Control, Plant 21, Gloria noted that a lot of time could be saved, and duplication avoided, if material tracked in Plant 24 Inventory Control were identified as "previously tracked." The tracking system in her section then would not attempt to process (and then reject) it. "She has cut redundancy in the system and improved the whole operation," says her supervisor, Bob Ketcham.

Gloria has been with the Company four years, the past three in Critical Material Control. Ketcham points out that she has had three Project Sterling suggestions accepted, and this is her second cost reduction award this year. Further, his section has had 100 percent participation in Project Sterling, he says, and about half his section have submitted two or more suggestions.

Gloria used to work for General Instrument in Hicksville, and before that she lived in Stony Creek, Va. She has a 12-year-old daughter, Tawanna.

Peter Alford's \$400 idea had to do with protection of LM test cables and fittings. He recommended adequate but less expensive coverings for the spacecraft, and Engineering and NASA Quality Control agreed.

Additional winners

\$300: Stanley J. Jastemski, Handling Equipment Repair, Plant 2.

\$150: Robert Gehrich, Parts Fabrication (terminated); Peter Kurajian, Facilities Maintenance, Plant 3.

\$125: Edward J. Kavanaugh, Wing Sub Assembly, Plant 3; Joseph D. Myer Jr., Manufacturing Shop, Plant 83, KSC; Ray F. Simpson, Machine Shop, Plant 58, Sterling.

\$100: James L. Leahy, Electrical Fabrication, Plant 1; Peter C. Foster, Electrical Equipment, Plant 2; John T. Simmons, Electrical Equipment, Plant 2; Benjamin Stutz, Sub Assembly, Plant 1; Victor J. Albanese, RF Engineering, Plant 14; Arthur J. Burk, Antennas & Radomes, Plant 1; Joseph V. Moks Jr., Antennas & Radomes, Plant 14; Richard H. Imgram, Systems Technology Management, Plant 5.

\$75: Jack Genova, Electrical Fabrication, Plant 55, Savannah; Oliver Wade, Facilities Maintenance, Plant 3.

\$50: Nelson R. Bolton, Production Sub Assembly, Plant 3; Donald Collins, Structural Test, Plant 5; Mel Williamson, Wing Final Assembly, Plant 3.

\$25: Eursel Logan, Machine Shop, Plant 58, Sterling; Robert Smith, Machine Operations, Plant 56, Glen Arm.



Money-winning thoughts. End-of-summer suggestions that have speeded production were bond-winners for Gloria Moore of Critical Material Control, Plant 21, and Walter Richter of Cutting Tool Control, Plant 11A. This is Gloria's second cost reduction winner this year. Her award was \$425. Richter earned \$1,050 in Savings Bonds for simplifying storage and transportation of cutting tools. (Photo by Bob Settles)

Roth prepping for world 'fly-off' competition

John Roth is eyeing next summer avidly. Somewhere in Europe (the place is yet to be determined) there'll be an international competition of scale model aircraft—and John will be there.

A veteran of 30 years of aircraft model building, including 20 years of making radio-controlled models, John earned the right to compete by ending up in the top three in a competition in Chicago earlier this year. Those three make up the American team, and they will be flying against teams from some 25 countries.

"Both my wife and I will be at the week-long meet, wherever in Europe they want to hold it," said John, who's assistant manager of Plant 4. The last international scale event was held in West Germany in 1970.

John's approach to building the model he used in Chicago was to acquire the drawings of a full-scale aircraft that had been flight-approved by the Federal Aviation Administration. He then built a quarter-scale model of that aircraft.

"The original full-scale aircraft could probably fly at a maximum altitude of about 9,000 feet. This quarter-scale plane won't do as well. It'll fly at, say, around 300 feet."

He also pointed out that these com-



petitive, scale models are not made from kits. That's verboten . . . and leads to an extra tang of competition.

"Four basic systems are involved in competing with an aircraft like mine: elevator, rudder, ailerons, and motor control," John said. "You're tested on such maneuvers as making loops, do-

ing spins, rolls, touch-and-go landings, and precision flights. All of this is to be done in about 10 or 12 minutes. There's science in it."

John's model has a six-foot wingspan, weighs 10½ pounds, and is powered by a two-cylinder Ross twin engine.

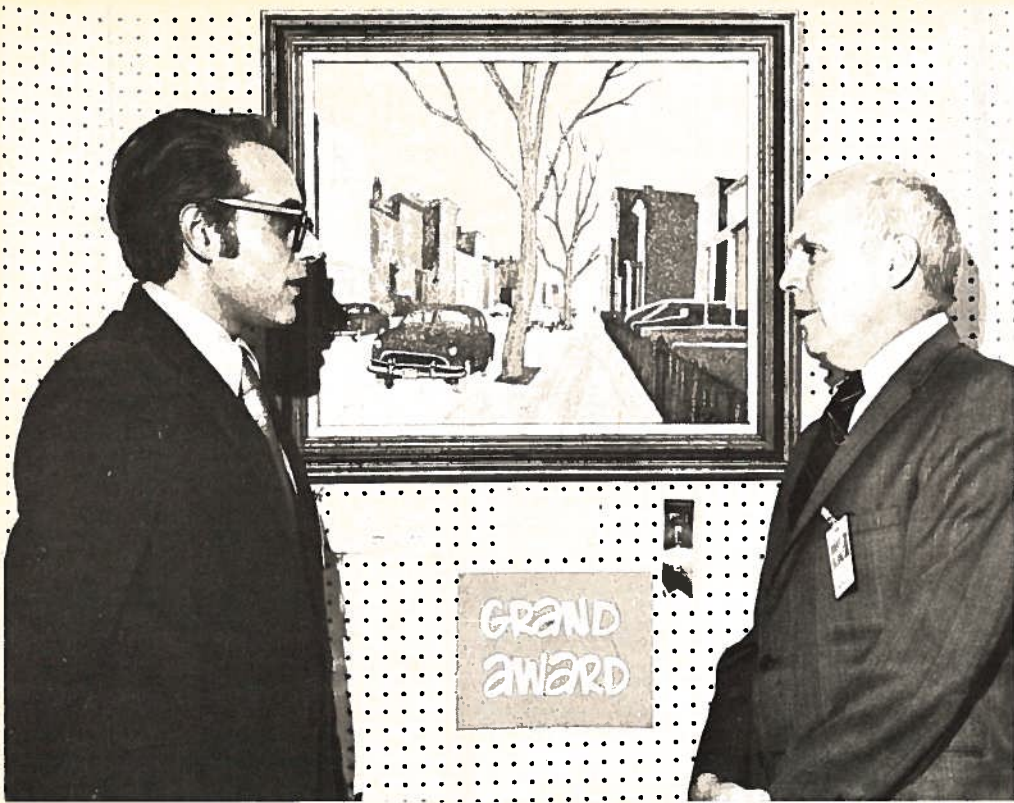
OBITUARIES

Plane News has received word that death has come to the Grumman personnel listed below. We extend sincere sympathy to relatives and friends.

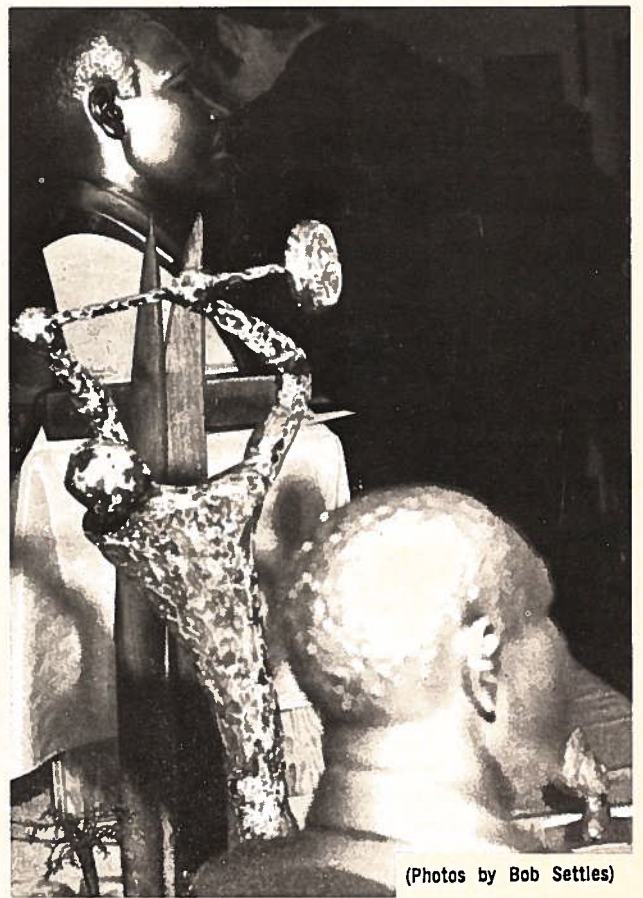
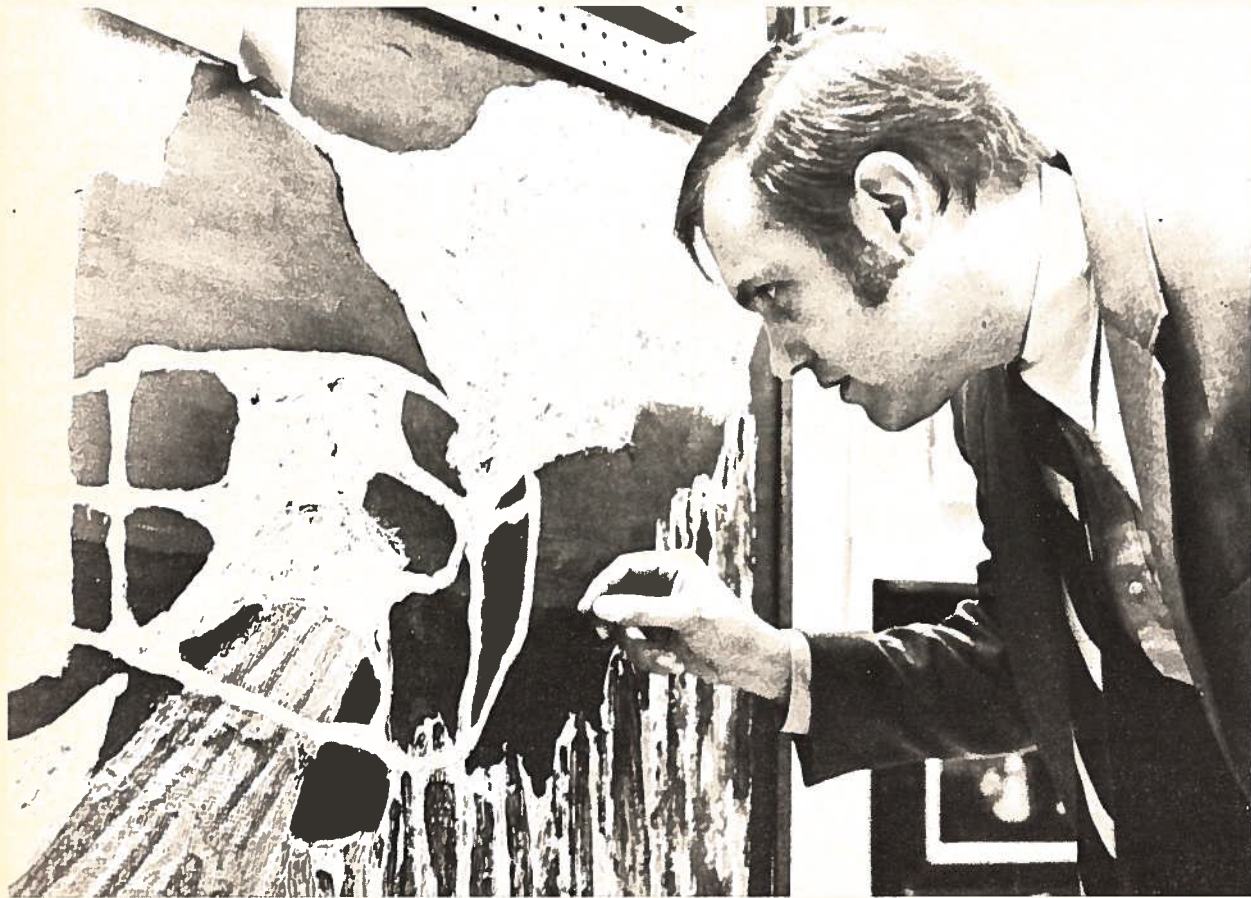
ALFRED FEIL of Manufacturing Shops, Plant 52, Houston, died November 13 at the age of 59. He had been with Grumman nearly 34 years. He lived at 420 Glen Cove Blvd., Kemah, Texas.

AMIELLO RUSSO died November 14 at the age of 63. He had been with the Company since 1969 and worked in Food Services, Plant 2. His home was at 20 Neptune Ave., West Babylon.

GUSTAVE L. ANDREN of the Press Department, Plant 3, died November 21. He was 58 years old and had been with the Company 19 years. He lived at 16 Flower La., Centerach.



Art, photo display attracts wide range of talent



(Photos by Bob Settles)

Dellamura, DeClemente excel in Art, Photography exhibit

If a painting should tell a story, set a mood, be compelling enough to draw the viewer to it again and again, then it's rather easy to see why Frank Dellamura won one of the two Grand Prizes for his painting in the Annual Art and Photography Show.

The judges—Mrs. Monte Belden, Mrs. Lenny Wuchner, and Neil Fogel, who is vice president of Nassau Gallery Ltd.—apparently had no difficulty in agreeing unanimously that Dellamura's work rated first. That it set a mood was clear to all. "There's loneliness, serenity, and starkness," remarked Mrs. Wuchner, "and it tells a dramatic story."

Fogel called it "a highly creative concept, one distinguished by the artist's handling of light. It tells what the artist sees on this street he's painted." And what was there on the street? A line of cars, vintage 1950; a solitary figure far in the background; but most striking of all, houses jammed tightly together . . . and **without any windows**. Even without windows—perhaps the most striking feature of the painting—there was a softness about it.

Childhood memories

"It's the memory of my old neighborhood, Stockholm Street, Brooklyn," said Dellamura. "I wanted to leave that area. The people lived in the houses. They weren't out on the street; they were inside. There wasn't much contact with people. There was emptiness and loneliness."

How well the judges had captured the tone! And how well Dellamura had portrayed it!

There were many, many others that impressed the judges, so much so that when one of them made a special plea that all of the entrants "continue, re-submit their work to others," all agreed. "There is so much creativity here it is almost amazing. And we don't have to say that. We mean it."

If the painters and sculptors were deserving of such praise (and they were) so, too, were the photographers, whose shots were judged by Frank Bauer, Bob Carruthers (architectural photographer and president of the L. I. Society of Photographic Illustrators), and Dick Waldmann, industrial photographer for Grumman.

Prize photo

Grand Award winner in photography was Joe De Clemente. His color slide—truly in warm mood—was of people inside a cabin, either at night or at dusk. "It was taken in St. James," said DeClemente, "and I took it almost by pure accident. I wasn't thinking of setting up a shot." He should have more such accidents.

In close contention for the Grand Award was another color shot, this one by Chuck Belensky in the People category. Belensky zeroed in on a man straining, muscles rippling, to pull a fishnet. The taut line, the man leaning, back, the tension and effort reminded one of scenes in Ernest Hemingway's book "The Old Man and the Sea."

In over-all, the show was not merely

a success; wherever one looked there was something lovely, something thought-provoking, something subtle and soft, something challenging and new. As one of the judges commented, "There is just so much here, so much packed into a small area, and so much talent! It's beautiful."

Vice President Jim Zusi presided at the awards ceremony and gave out the prizes, which are listed below by category and rank, first prize first, second prize second, third prize third.

Show winners:

ART

GRAND AWARD: Frank Dellamura
OIL, PLASTICS, ACRYLICS

Landscapes: Frank Dellamura, Mario Errante, Herman Friedman

Seascape: John Bauer, Eleanor Moorehead, William Horton

Non-objective, Abstract, etc.: Frank Mulvey, Adrienne Ryan, Frank Packy

Figure, Portrait: Frank Mulvey, Frank Dellamura, Charles Edgette

Still Life: Vincent Skittone, Lillian Richer, George Haraden

Nature: Al Stern, Charles Edgette, Herman Friedman

WATERCOLOR: Norman Pedersen, Curt Dolderer, Eric Gebhardt

PASTELS: Vincent Skittone

BLACK & WHITE, GRAPHICS, ETC.: Charles Korrow, Vincent Skittone, Frank Mulvey

SCULPTURE: Ray Ferrari, Carlos Paez, Daniel Taurillo

MISCELLANEOUS: Joseph Gurney, Pete Ivy, Herman Friedman

PHOTOGRAPHY

GRAND AWARD: Joe De Clemente

BLACK & WHITE PRINTS

Scenes & Nature: John Kessler, Harold Wicker, Bob Schierenbeck

Still Life: Emmett Goodman, Jean Paillet, James T. Dixon

People: Harold Wicker, John Kessler, Chris Lopez

Animals: Bob Schierenbeck, Chris Lopez, William Oelcher

Human Interest: William Oelcher, John Kessler, Arnold R. Johnson

Abstract: Louis Royce

Miscellaneous: Louis Royce, Herbert Denaci, Bob Schierenbeck

COLOR PRINTS

SCENES, NATURE: Frank Baldi, Gardner Lorimer, Arthur L. Rossoff

STILL LIFE: Emmett Goodman, Frank Baldi, Chuck Belensky

PEOPLE: Chuck Belensky, Robert Garrett, Robert Soave

ANIMALS: Peter Woltmann, Herbert Denaci

HUMAN INTEREST: Robert Soave, Frank Baldi, Emmett Goodman

MISCELLANEOUS: Gardner Lorimer, David Sobolow, Frank Baldi

COLOR SLIDES

SCENES, NATURE: Walter T. Demchuk, Claire Imrie, Gilman Wright

STILL LIFE: James T. Dixon, Jerry Wachtel, Chuck Belensky

PEOPLE: William O'Neil, Jerry Wachtel, David Hanoka

ANIMALS: Greg Criscione, Tom Dalton, Joe Anckner

HUMAN INTEREST: Jerry Wachtel, David Hanoka, Peter Woltmann

ABSTRACT: Walter Demchuk, Tom Dalton, Howard Teichmann

MISCELLANEOUS: Joe De Clemente, Walter Demchuk, Bill Moran

SNAPSHOTS: Joseph Sinicki, Dolores Stierle, Edward Schledorn

What a record!



A big one. The director of Safety at KSC, John Atkins, presents the Cape's Accident Prevention Award to Jack Andrews, director of Grumman Safety at KSC, for five million accident-free manhours. Looking on is Chuck Kroupa, director of Operations for the Company at KSC. The Travelers Insurance Companies added to those honors by presenting a plaque to Grumman.

How about this as a record: five million manhours without a lost-time accident!

Seems fantastic, but that's just what the Grumman people at the Kennedy Space Center in Florida have done. Fittingly, they got an award for their efforts.

It's hardly the first. They've pulled down some others. For example, earlier, Grummanites at KSC won an award for 3,052,581 accident-free manhours. That streak ran from November of '67 into January '69. The latest one ran from January of '69 through June of this year.

That's not all of the story either. In the four years that KSC-wide safety programs have been run—which includes all contractors at the base—Grumman has won twice.

Medicare tips—and money savers

If you're approaching 65, have parents who are over that age, or if you're retired from Grumman now, the following message from Sydney Savrin, manager of the Mineola Social Security Office, should be of especial interest to you:

"Many people who could receive payment of some portion of their medical expenses by Medicare lose money because they do not file their claims within the time limit.

"Anyone age 65 or over who is enrolled in Part B of Medicare is urged to check all of his medical bills now to be sure he has not overlooked one.

"Claims for medical payments incurred between October 1, 1969, and September 30, 1970, must be filed no later than December 31, 1971.

"Those claims should be sent in immediately to avoid the usual year-end rush and the resulting long wait for payment. A free booklet explaining how to submit claims to Medicare is available at the nearest Social Security Office. (In Nassau, call PI 7-5470.) Ask for booklet SSI-50.

"Remember, the time limit for sending in claims is very important. Don't lose money by waiting too long."

CALENDAR of events

Notice of events for period Dec. 10-Dec. 22 should reach Plane News by Tues., Nov. 30.

Am. Radio Club: Wed., Dec. 15, 5 p.m., WA2LQO radio shack on roof of Plt. 5. Emmett Goodman, Ext. 87125.

Chess Club: Every Tues., 4:30-9 p.m., Plt. 3 Cafe, inter-company tournaments. Alex Ikonnikow, Ext. 7591.

Coiln Club: Every Wed., 12:05-12:50 p.m., Plt. 25 Vendor Conf. Rms. Ken Hale, Ext. 1936.

Dance Club: Ballrm. danc. classes: beginners Tues., 8:30-10 p.m., St. Francis of Assisi Northgate & Clay Pitts, Greenlawn; adv., Thurs., 8:30-10:30 p.m., Portuguese Amer. Hall, 306 Jericho Tpke., Mineola, \$2/session. Len Luke, Ext. 84065.

Dupl. Bridge Club: Every Thurs., 5:45 p.m., Plt. 3 cafe, partnerships arranged. S. Stone, Ext. 3652.

Ex-Servicemen's Club: Mon., Dec. 6, 7:30 p.m., Plt. 28 Audit, reg. month. mtg.; vet. counselor avail. alt. Thurs. For info., A. Kordula, Ext. 87259.

Fenc. Club: Mon. & Wed., 4:30-6:30 p.m., Plt. 30 cafe, basic instr. & competitive fenc. Joe Campisi, Ext. 87587.

Fly. Club: Fri., Dec. 10, 5 p.m., Plt. 28 Audit, month, mtg. Mal Gerry, Ext. 1396.

Grumman Dog Club: Mon., Dec. 6, 8 p.m., Plt. 18 Audit, dog obed. prog. R. Messler, Ext. 7351.

Horseback Rid. Club: Every Sun. Caren Carlson, Ext. 2725.

Rod & Gun Club: Wed., Dec. 8, 7:30 p.m., John's Oasis, Hicksville, annual mtg., elections for '72, free buffet. Walt. Schillinger, Ext. 57 617.

Stamp Club (Bethpage): First 3 Wed. of month, 5 p.m., Plt. 30 cafe, swap, circuit bks., sales & auction. Marty Harow, Ext. 9172.

Soccer Club: Sundays, Reserve team, 12:30 p.m., Premier team, 2:30 p.m., league & cup competition, member L.I. Soccer League. Karl Herrnkind, Ext. 3470.

Stuart swings in warm picnic tempo . . .

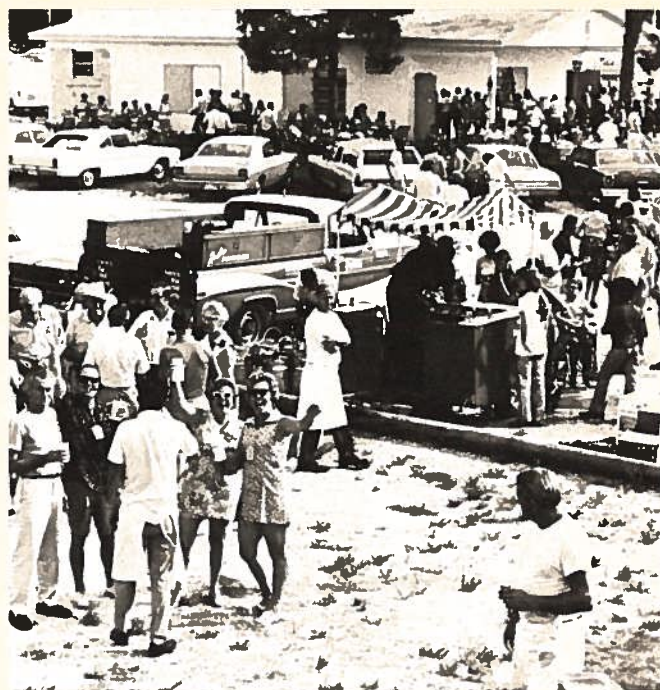


A picnic on November 6? And why not . . . if you're located at Stuart, Florida.

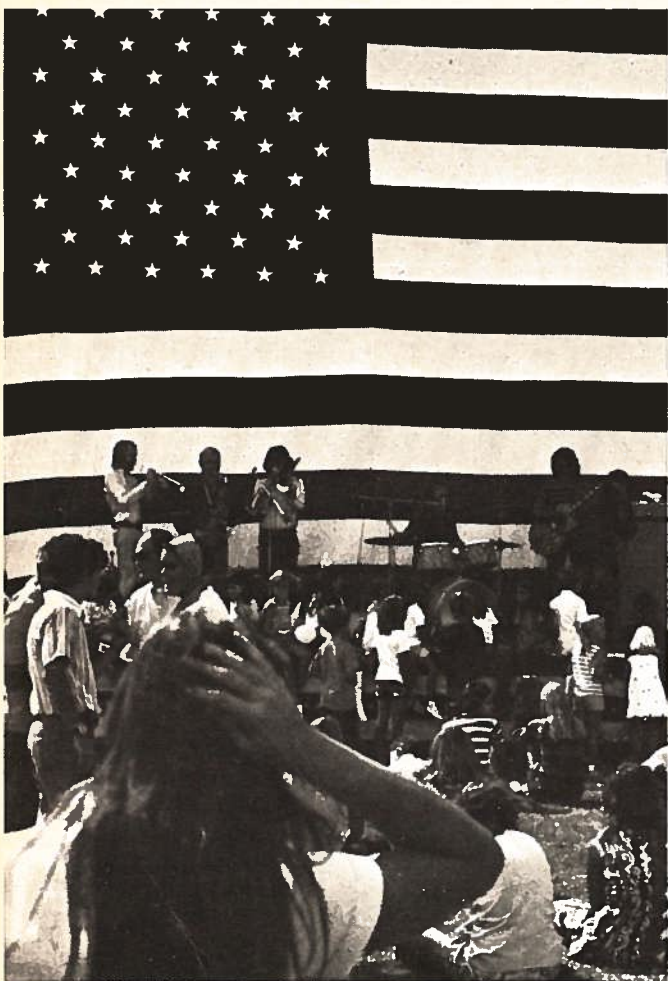
Three days of rain earlier forced a change of location from the traditional Jensen Beach causeway to Langford Park, a quite minor disruption as things turned out.

Some 1,400 came out on "the typically sunny Florida day" to relax and play. There was tennis and shuffleboard, basketball and softball, soccer and touch-tackle football, among other vigorous outdoor activities. And there were a lot of charley horses.

Alex Milan of Shipping, a former chef, out did himself with what was termed "a delicious dinner of barbecued chicken, cole slaw, and baked beans for the multitude." There was also a hot-dog and hamburger detail, too, ably managed by Frank Reinecke of Production. In charge of the affair were Fred Costantino and Joe Mullally.



. . . and KSC rollickers keep the beat

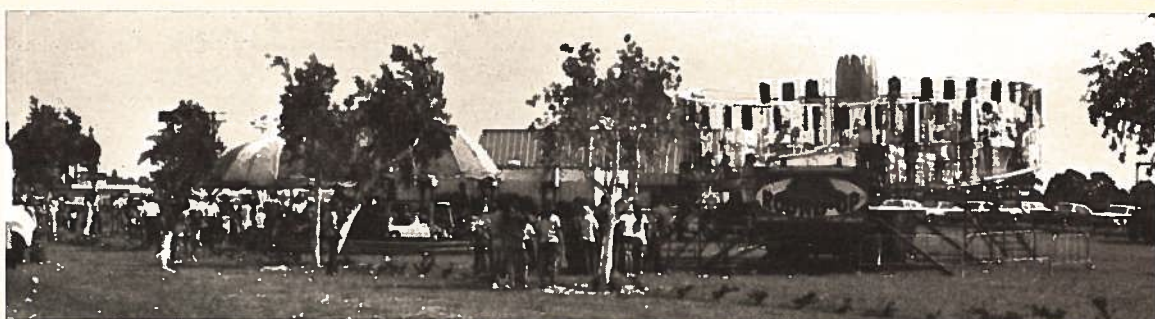


It was a great day for Grummanites and their families!

In fact, it was a rollicking and fun-filled day as some 1,800 people—about 1,000 of them kids—got to Kiwanis Island on Merritt Island for the seventh annual Family Picnic at the Kennedy Space Center.

According to Ted Giannone, Grumman base administrator at KSC, "The most outstanding feature of the picnic was a 20 by 30-foot American flag, which was used as a backdrop for the stage. It was a hit."

But not the only hit . . . not by a long shot. There was music . . . and a variety show . . . and chicken—lots of chicken—for lunch . . . and refreshments in abundance. And, of course, a variety of sports events for children of all ages.



Skirde uses 237 in Masters to establish loop mark of 841

There wasn't much time for George Fowler to rest on his laurels—it took only two weeks for Fred Skirde to come along and swipe one of George's individual marks in the hot Masters league. A couple of rounds ago Fowler clicked for 276-813. It must have set things in motion because Srirde came back last week to fire 237 and 225 as he finished with a record 841. It came at an opportune time. Fred picked up a bird in the GAA turkey sweeps for his top effort.

Fowler wasn't far behind; he put together lines of 203, 206, and 213 to close at 814—one pin higher than his old mark. With more than half a season to go, the Fowler-Skirde matchup could turn into an interesting — and high-scoring—competition. Other highlights in the Masters included Phil Piacentini Jr.'s 234-809, Ray Zeller's 210-212-793; Fred Dick's 228-790. . . . Ben Monte fired 235-604 in the Red circuit to outdistance Phil Musa's 213-576 for weekly honors. Bright spots were: Joe Glasser's 561, Herm Fischer's 560, Ed Drydol's 210-590, and Ray Sutton's 553.

Murtha sets Hawkeye Mixed mark

Tom Murtha had a hot hand in Hawkeye Mixed play a couple of weeks ago as he forged a record 637 on games of 222, 210, and 205. Chet Everoski, who's former 611 mark went by the boards, got some consolation by salvaging the round's game honors with 227. Jo Tornatore's 200-500 led the women. Last week, Maude Schulz tied Ann Wuestman for string laurels with 519 in a session marked also by Eileen Aloise's 199. . . . Sandy Rider led the Blue Mixed circuit with 545 to help keep the Decided near the top of the league standings in action marked also by Lou Ricci's 524. Other Mixed standouts were Joy Olenick, 196-448; Lee Badalementi, 495; and Ernie Sandee, 206-530.

Agh! Jack Brooks must have had to bite his tongue in a recent session of the Classified circuit. There he was, well on his way to a big series with 213 and 218 in the first two games. Then — disaster! Brooks threw a meager 133 in the finale and wound up with 564. Too bad, Jack, we all know how you feel. Ah well, there'll be other nights. Ed Meaney pushed to 235-599 the following session to shade Dick Goedtel's 212-589 for individual honors, with Bob Dudonis' 224-576 another top score.

Gobbi hits 624 in Black play

There's a tight race shaping up in the Black loop, and the Spares can thank Charlie Gobbi for keeping them in the running for that title. Charlie pushed the Spares into the lead recently with a solid 624 on lines of 201, 209, and 214. The score far outdistanced Carmine Vitale's 202-564. In earlier action, Ed Burlingame pushed to 614 on 206 and 217, while Bob Specht registered 247, a record, while totaling 595. Other top efforts included Joe Russo's 203-570, Russ Player's 202-563, Burlingame's 200-562, and Jim Herzberg's 216-561.

Things were a mite quiet in Nite Owl competition. Rudy Dunkley (who else?) led the scoring with 209-599. Top game

went to Al Albanese with 217; Bill Harris had 212. . . . In Woodbury Mixed results, Ken Camidge's 203-544, Herb PirkI's 220-551, Donna Lawrow's 484, and Marie Prochaska's 476 led the parade. . . . Ben Picone will savor his Thanksgiving turkey this year: what the hell, he won it on the strength of his 218-581 during turkey sweeps week, and took individual honors in the Trader league along the way. Way to go, Ben! Runners-up included Bill Wright, 225-572; Ken Smith, 561; Charlie Gosline, 226-554; and George Ketcham, 551.

Hersey fires record 245

Adrian Hersey showed the "big guys" in the Aerospace loop what it's all about: low-average keggers can throw a record breaker, too. Hersey came into a recent session with a 141 average and walked out with 146. It didn't come easy: in between he rolled a hefty 245 which snapped Joe Solomon's old mark by four sticks. Solomon had 558, the same as Hersey, but his top game was 202. Earlier, Dave Evans put together games of 213 and 206, but his 601 total fell shy by eight of Ed Lomot's 609 league mark. Also in the roundup were Joe Oakes, 207-580; Dom Martino, 205-563; and Sam Genna, 548. . . . Maggie and Dave and Norma and George—the Patchogue Mixed League's answer to the movie of a different name—are leading the loop and having a good time while doing it. Norma fired 222 and closed with 558 to gain a tie with Joan Burgess for the league series mark. That same night her husband George clicked for 228 — a league record—and finished with 587, two sticks off the men's mark. Maggie Gaynor hit 204-548 to keep pace with the Jones's—er, Landis. Ken Becker fired 215-568.

Ike lays it on 'em

The Tornadoes are proving to be anything but the big wind they'd like to be, but Ike Washington is doing his bit for the team. Ike tossed a 207-227-621 to snap his own league string record a couple of weeks ago, then followed that up with 201-212-607. Bill Harrell grabbed a portion of the league honors with

Hustlers edge Digits for net win

It took a little bit of luck and a deep freeze but the Hustlers nipped the Digits, 66-62, in the opener of the Tuesday night basketball league. The luck turned out ot be bad for the Digits as they had to finish the fourth quarter with only four men after four men fouled out.

Going into the final quarter the game was tied at 49—but not for long. At the four-minute mark the Digits' five-man court team suddenly became a four-some, the Hustlers were quick to jump on the break, take over the lead, and then freeze the action for a four-point win. Bill Silverstein paced the key win with 14 points, while teammates Bill Foote, 12, Walt Gleich, 11, and Mike Sabia, 10, were not far behind.

Outstanding for the Digits were John Brook 13; Howie Levine, 14; and Mike Shillman, 13.

Help needed!

Although the pin season has been underway for about 10 weeks now, there are still some leagues trying to fill out a full roster of teams. The Trader League, for instance, has openings for men who wish to bowl on Friday, starting at 7:15 p.m., at Oscar's in East Islip. Those interested may call Ken Smith or Charlie Howard on Ext. 3758 or John Costanzo, Ext. 84441 or 2525.

The Masters loop is more particular — but even particular people need help once in awhile. If your average is 180 or thereabouts and you want to bowl in a strong circuit, call Jerry White, Ext. 2018.

On the slopes

Think snow. It's coming, and so are two week-end ski trips arranged by the Grumman Athletic Association. The first will be at the Sheraton Wayfarer, Manchester, N.H., February 4-6, by motor coach from Plant 3 right after work on Friday. Ski instruction included, two days. The other will be at Holiday Inn, Lenox, Mass., March 3-5.

Sign-up dates will be in January for the February trip, and in February for the March trip. Watch Plane News for details.

a record 237 in his 604 to erase the 234 set by Ken Cutekunst the previous round. Other high scorers included John Keenan, 223-599; John Rakton, 213-206-564; John DiSalvo, 213-558; Bill Gordon, 207-558; and Harry Vest, 209-212-557. . . . In the Century Mixed circuit, Bill Kallansrude shot 248 to set a league mark and finished with 575, tops in the league that session. Marilyn Cozzette deposed Nancy Gentzlinger as the high-game queen as she snapped that record by seven sticks while firing 222. Marilyn's 515 left Helen Miller's 529 string record intact, however. . . . Rounding out the pin action, Larry Schneider hit 212-585 to headline Rocket action, while other standouts were Dennie Gesinger, 220-539; John Cortes, 209-201-576.

In the Wednesday night league, it's very apparent that the Spoilers will have to look for more competition if there's to be any league race at all this year. Jim Cruthers' 22 points helped the Spoilers shut down Propulsion, 77-49, in a game that turned into a runaway after the first quarter.

Earlier, the Spoilers had less trouble against the Supporters. Hal Manaskie's 24 points paced a 92-45 victory for the Spoilers. He received strong support from John Bell, who had 22. The alarm hasn't gone out yet, but it will. Break up the Spoilers!

The Tomcats weren't much kinder. They landed on Propulsion in the league opener for a 56-35 win as Don Callahan popped in 13 to lead the scoring. Tom Schifini had 12 and John Bailey collected nine for the winners, with Art Nintzel's 12 tops for Propulsion.

Berka shines... but team loses

After a busy schedule in the L.I. Industrial league there were a lot of hot irons cooling off around Grumman — and the ones who got cooled the quickest was the Center Fire squad. Al Berka, Bill Klusmeyer, Ron Trenker, and Mike Baumgarten totaled 1037 but lost to Roslyn by 56 points. Berka fired 281 to lead the team, while following him up were Klusmeyer, 265; Trenker, 247; and Baumgarten, 244. That's the second loss for the Center Fire squad this year.

Other Grumman squads fared somewhat better in recent action. The Grumman A team whacked (or is it shot down?) Pan Am, 1045-1039, with John Crawford's 266 heading the scoring. Other contributors to the win: Herb Wolter, 260; Paul Pantason, 265; and Allen Carter, 254.

The streak was over practically before it began for in the next match the As bowed before Sperry, 1014-1099. Dave Rice hit 261, with Art Kaefer, 255, Bob Bergeman, 244, and Pantason, 244, other team members.

Rip Pan Am

Also in the Expert division the P squad ripped Pan Am, 1113-1062. The P lineup included Hank Chou, 284; Nick Evangelides, 281; Ron Trenker, 276; and Phil Boehm, 272. The win pushed their record to 2-1.

In an All-Grumman shootout, the Cs swamped the Es, 1015-934. Leader in that match was Mike Baumgarten with 272. Other scorers were: Bill Rommell, 249; Henry Shoten, 247; and Frank Dioguardi, 247.

The Es went back at the practice range to see if they can improve on Matt Spencer's 240, Tom Cassino's 237, Bob Hambrecht's 236, and Tom Tavitian's 221.

Fortunately those shootouts aren't for real 'cause that practice didn't work—they lost to IBM, too, this time by 916-985. Spencer led the list again, rising to 251. His teammates fared rather badly, though, with Tavitian at 223, Vince Garzia closing at 222, and Cassino finishing at 220.

Paddleball champs

A couple of new kids on the block walked off with the newest team crown in the GAA sports picture — the 1971 paddle ball doubles championship. Dave Rothschild and Mike Shillman swept through four opposing teams without a loss as they clipped Mel Lynn and Milt Fishman, 21-4, Frank LoCascio and Pete Corte, 22-20, Bernie Zyniewski and Joe Placenza, 22-20, and Paul Nacino-vich and Marty Kanner, 21-16.

On target

The Grumman Gophers look like they're headed to another team crown in the L.I. Industrial league. The perennial champs ran their 1971-72 season record to two wins with a 773-723 victory over Sperry as George Hilton and Hank Womble fired 195, Bob Lang, 194, and Ed Brandis, 189.

Okay, guys, how about adding the South Shore title to your gun belt this year, too.

For Rent
APT.: Locust Valley, lrg. furn., all util., for mature bus. cpl. or sgl. 671-0517.
ROOMS: Westbury-Hicksville area, new lrg. comb. bdrm./liv. rm., pvt. ent., bath, kitchenette, carpet., TV, air cond., linen, references, \$40/wk. 334-0022.
SKI HOUSE: S. Vermont, new mod. facil., firepls., slps. 10, short term rent. only. 212 291-4891.
APT.: F'dale, 6 rm., 2nd fl., 12/1 occup. MY 4-7379, after 6.
APT.: Wantagh, 4 rm., 2 bdrm., carpet., panel. rms., \$235 incl. util., mature couple pref. 226-2068.
COTTAGE: Lake Ronkonkoma, mod. 3 rm., all conven., walk. dist. stores, couple pref. JU 8-3166.
ROOM: E. Meadow area, furn., kit. priv. avail., gar. avail. PE 1-3703.
APT.: Locust Valley, 3 lrg. rms., furn., bus. person or couple only, avail. 12/1. 671-0517, after 5.
ROOM: N. Massapequa, linens, sep. heat zone, nr. shops, serv., nr. Grumman, gent. pref. MY 4-5814.
APT.: Sanibel Arms condominium, Sanibel Isl., Fla., 2 bdrm., 2 bath, din. rm., encl. porch, pool., pvt. bch., 2 wk. min., \$190/wk., \$750/mo. HA 3-4899.
SKI LODGE: Nr. Stratton, kit., 4 bdrm., 2 bath, fire-pl., color TV, avail. wkends. PY 8-3879.
ROOMS: Lindenhurst, 2 lrg., pvt. bath & ent., TV, refrig., air cond., rugs, couple pref. 226-8766.

Wanted
OLD TRAINS: Before WW II. 543-4035.
SCRIBE: Used, for ice skating. N. Markeloff, Ext. 1115.
PLAYER: Accordion or sax, to join adult dance combo. VA 5-8144.
SERV. MANUAL: For '68 Plymouth Valiant. 212 343-3288.
ROOMMATE: Sgl. male, 25-30, share 3 bdrm. furn. home, Bethpage, fin. bsmt., gar., \$410 plus util. div. by 3. 822-1367.
DRUM SET: Amer. made, gd. cond., reason. 368-7009.

Car Pool
WASH., D.C.: Wkends. Steve Stever, Ext. 6315.
HAUPPAUGE: To Calverton, 8-4:30. J. Buzzanca, Ext. 57-883.

Ride Wanted
LONG BCH.: To Pit. 2. GE 2-3311.
HUNT. STA.: To Pit. 30 area, 8-4:30 or earlier. 271-4486.

For Sale
MISC.: Sect. couch, \$30; cocktail tbl., \$10; anti-que satin lin. drapes, dbl. wid., \$30, triple wid., \$45; chandelier, \$15; desk, \$10; hang. ceil. fix., \$10; 2 framed mirrors, \$10/ea. 921-3192, evgs.
RECLINER: Berkline, Ital. prov., orange/gold naugahyde w/sep. zipper cush., 3 pos., \$75. 212 671-2021.
FURN.: Sofa, 3 chrs., 2 tbls., 2 lamps, 43 yd. rug, \$250. JU 4-6090.
KIT SET: Tbl. w/ext, 4 gray pad. chrs., \$30. JU 1-3125.
WASH. MACH.: Norge, 2 cyl., hvy. dty., \$50. 731-1325.
WASH.: Apt. sz. Hoover & Maytag dryer, \$140. 486-6343.
SAW SHARPENER: Foley, tooth maker, resetter, other attach, inst. bk., \$125. 921-5510.
GUN CAB.: Wal., 67½x27½, 2 gl. drs., magnetic locks & lrg. util. dwr., holds 6 guns, \$50. 581-5536.
MAN'S WATCH: Le Coultre, auto. alarm, calendar, seaed. never used, \$99. 799-1360.
SKIS: Hd. Slalom (SL) 205 cm, \$75; Hd. Giant Slalom, 205 cm w/Look Grand Prix bind., \$100, wo bind., \$75. 775-7870, after 6.
HD. SKIS: Mod. 720, 208cm, new, no bind. mtd., \$115. LI 1-8590.
MISC.: Fbgl. skis, boots sz. 7, poles, \$45. AR 1-1149, after 6.
AVIATION ENG.: Lycoming 180 hp, best offer. PO 7-0573, after 6.
BUICK: '67 Skylark, 2-dr. hdtp., vinyl rf., pwr., bkts., cons., 51,000 mi., \$900. 888-7690.
CNTRY. SQUIRE: '67, 3-spd., auto., pwr. steer., air cond. 2 mtd. snows, 79,000 mi., \$850. 751-2292. 5-6465.

10

For Sale
PUPPIES: Short hair, pointer, AKC, champ sire, shots & crop. 732-3364.
POODLES: Toys & mini, champ sire., reason. WE 5-2083, evgs.
BEAGLES: AKC, field/hunt., male/fem., \$200/ea., 3 mo. puppies, \$75/ea. 475-7565, after 7:30 p.m.
TERRIER: Yorkshire, male, AKC, 6 mo., shots, 3½ lbs., paper train., \$125. 667-1619, after 5.
VW: '68 Beetle, radio, undercoat, \$1,100. 265-6128, evgs.
DODGE: '69 Polara, 4-dr. sed., auto., pwr. steer. & bks., fact. air, xtras, \$1,925. 868-7061.
PORSCHE: '65, mod. 356-B, \$2,200. 549-9211, after 5.
MUSTANG: '65, 6 cyl., auto., radio, etc., orig. owner. 661-7270.
STEREO SYS.: Components, 2 rectilinear XI spkrs., 1 Lafayette LA-750 amp, 1 Lafayette LT-725A AM-FM tuner, Garrard SL55B changer, Pickering cart., ask. \$295. 914 969-2855.

at your SERVICE

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For Sale

TIRES: Stud. snows, 8:55x15, used 1 yr., \$40. 588-7592.

TAPE DECK: AKAI 4-trk. mod. 360D, prof. stereo, 7 in. reel or cassettes, new edit, xtras, \$460. 727-7831.

BAR: 4 ft., lgt. bamboo & formica, \$65. 727-8534.

MISC.: Ceramic decor plaques, woodtone, Spanish lady, matador & bull, \$20; Roman soldier hds. set, bronxetone, \$12. 732-6857.

FISH TANK: 10 gal. w/lgt., filt., metalframe, pump, heat, std. & decor, \$20. 935-4295.

WASH. MACH.: Kenmore, 8 lbs., wh., 3 yr., \$50. 731-0488.

WASH. MACH.: Monitor port., 3 mo., \$100. 293-8933.

PHOTO EQUIP.: Argus electromatic 570 slide proj., \$35; Minox B w/flash unit, \$50, Nikkormat FT body, \$100; 30 Argus spillproof slide trays, \$30. 661-5474.

HOME MOVIES: Horror, science fiction, comedy, etc., super & std. 8, silent & sound, shorts & complete; Gaf proj., dual 8, #588, \$55. IV 9-1431, after 6.

SKI EQUIP.: 6 ft. 3 in., new, wood w/cable safety bind., not installed, \$20; 48 in. ski poles. 681-9588, after 4:30.

MISC.: Sears reel type pwr. mower, 2 yr., \$35; o'stuff. brown chr., \$10; 2 sofas, 5 ft. ea., lgt. blue slipcov., \$30; G.E. floor wax., \$12; outdr. barbecue; 10 ft. step ladder, clothes hamper, bdrm. chr., \$16. 598-2992, after 4.

BOAT TRLR.: 19 ft., 4-whl. tandem, new structural members & axle, new winch, \$120. HA 1-2196.

DESK: 6 ft., hvy wal., \$25. WE 5-8570.

LIV. RM. FURN.: Lamps, tbls., rug, best offer. JU 4-6090.

FURN.: 4 pc. pastel pink sect. sofa; refrig.; wash.; dry., best offer. 864-6168.

TBLS.: 3 pc. mahog. Ital. marble tp., \$200. GE 3-9246.

MISC.: Antique fl. mod. radio; 8 pc. den furn., port. B&W TV, reason. 864-1777.

DRAPES: New liv. & din. rm. lined drapes, lgt. on drk. grn. w/fringe val., \$200. 231-6497.

GAS STOVE: 39 in. Norge deluxe, auto. oven, timer, clock, gl. dr., \$30. 862-8284.

CRIB: Child Craft 5291, wh., Nurserytime matt. & bump., drop sides, used 3 mo., \$125. 423-5299.

HOUSE: Selden/S. Setauket area, 3 bdrm. ranch, full bsmt., att. gar., ¼ acre, fenc., carpet., all major appli., 8 yr., \$24,990. 473-8585.

HOUSE: Greenlawn, 4 bdrm., fin. bsmt., o.h.w. heat, w-w, 5 appli., fenc., 1/3 acre, sch. dist. 6, \$33,000. AN 1-4704.

HOUSE: Pt. Jeff. vill., 3 bdrm. cust. col. cape, 1/3 wood. acre, liv. rm. w/fieldstone firepl., din. rm., eat-in-kit., new dishwash., scr. porch, full bsmt., w-w, 220v/100 amp, o.h.w., xtras, \$650 tax, \$39,900. HR 3-3232.

HOUSE: Rocky Pt., 7 rm. col., 3 bdrm., 1½ bath, gar., ctrl. air, pvt. bch., 5 appli., ¼ acre, 6% mtge. avail., \$29,500. 744-1886, after 6.

FORD: '62 Fairlane 500, \$75. 567-3807.

BUICK: '69 le Sabre, 4-dr., vinyl tp., air cond., R&H, pwr. steer. & bks., 2 w/w snows, 29,800 mi. 599-3766.

PONTIAC: '69, 2-dr. hdtp., brown Ventura, pwr. steer. & bks., rear defog. & spkr., mtd. snows, winterized, 30,000 mi., \$1,890. WE 5-1049.

OPEL KADETT: '67, \$600. WE 5-3821.

BUICK: '67 GS, 2-dr., auto., pwr., steer., V-8, blue/wh., nds. muff. & dr., \$600. 822-2973.

CORVAIR: '65 conv., 180 hp, turbo charged w/ spare 180 hp drive train. 588-0160.

MERCURY: '71 Capri, 3,300 mi., front & rear bkt. seats, auto., cons., \$2,000. 234-6979.

CADILLAC: '68 Coupe de Ville, vinyl tp., stereo, air cond., all pwr., \$2,695. UV 4-6151.

FORD: '67 Fairlane, 4-dr. sed., V-8, auto., pwr. steer., radio. 587-1421, afternoons.

CADILLAC: '60, pwr. steer., bks., wind., & seats, 2 new snows; 120 bass elec. accordion, 16 chgs. 234-0539.

CORVETTE: '63 coupe, AM/FM, 4-spd., new tires, blk. w/blue int., \$1,500. 248-0918.

CHEVROLET: '65 Bel Air, loadivrs., new tires, 283, V-8, \$850. 212 IN 3-2940.

PONTIAC: '64 Tempest, 6 cyl., std., new tires & clutch, rear defrost. & spkr., \$400. 864-5942.

CHEVROLET: '64 Bel Air, 4-dr. sed., 6 cyl., auto., R&H, pwr. steer., 2 new tires, 2 snows w/whls., orig. owner, \$400. 799-4185.

STEREO: TV, radio cons., \$50. 586-2671, after 5.

GRUMMAN, November 29, 1971

For Sale

KARMANN GHIA: '63 conv., rebilt. eng. w/less than 100 mi., new carb., rebilt. gen., nds. clutch, pressure plate, \$150. AN 5-3268, after 4.

COUGAR: '67 w/GT pkg., pwr. steer., & bks., front bkt. seats, 4-spd. stick, \$800. HA 7-7286.

WAGON: '63 Chevy, std. 6, ask. \$325. 757-3673.

BUICK: '68 sportswagon, V-8, auto., pwr. steer. & bks., R&H, roof rack, carpet cargo area, w/w, new tires, \$2,000. AN 5-8166.

VW: '64 bug, R&H, 2 snows, \$550. 669-3249, after 3.

DODGE: '66 Dart, 2-dr., 270 hdtp., 225 - 6 cyl., auto., air cond., R&H, xtra rims, \$575. 757-8610.

VW: '66 bus, blue, 45,000 mi., ask. \$1,050. MA 3-7305.

BUICK: '67 le Sabre, cust. 2-dr. hdtp., auto., pwr. steer. & bks., saddle vinyl int., snows, \$975. 234-4183.

MG: '65 Midget, wire whls., tonn. tp., \$700. 249-6964.

BUICK: '62 Electra, all pwr., 4-dr., fact. air., fully equip., 3 yr. transmission, xtras, \$225. WA 1-0163.

RAMBLER: '62, 6 cyl., auto., pwr. steer. PY 8-4411, after 6.

PONTIAC: '66 Catalina sta. wag., snows, \$350. 261-1873.

IMPALA: '68 SS, 396, hdrs., instru., 4-spd., new clutch, bkts., cons., AM/FM, stereo tape deck, red, blk. vinyl top, \$1,550. 872-9437.

PLYMOUTH: '70 Rd. Runner, 2-dr. hdtp., blue, hi-perf. 383, Hurst 4-spd., pwr. steer., tach & clock, lgt. pkg., Sure Grip rear steel rd. whls. 676-8732.

MISC.: Child's lace ski boots, sz. 3; boy's ice skates, reason. 433-8250.

MISC.: Ski rack, mts. on trunk, holds 4 pr., \$10; lady's buckle boots, sz. 5½ nar., \$10; man's lace boots, sz. 11 med. 732-0695.

MISC.: Tornado skis, 5 ft. 6 in., step in bind., \$20; home made motor bike, 3 hp Briggs eng., hand cont., \$30; girl's 3-spd. 20 in. bicycle, \$20; girl's 20 in. bicycle, \$15; 24 in. girl's bicycle, \$15. M. Tropiano, Ext. 2886.

SKI BOOTS: Lace style, La Dolomite, sz. 8½, used once, make offer. 433-0007.

SKI BOOTS: Boy's sz. 2, La Dolomite, Ital., \$15. LT 9-7430.

COAT: French rabbit fur, wh. & blk., sz. 14, \$100. 475-7564, after 6.

SPKRS.: Hi-fi, electro-voice 15TRXB in elec.-voice Regency encl.: \$75; Jensen CX225 TRIAX in elec.-voice Aristocrat encl., \$50. 623-0196.

POOL TBL.: 4x8, 6 pool cues, 2 pc. ping pong tbl. tp., \$90. AN 5-6825, after 5.

LOUNGE CHR.: Swivel tiit w/tweed uphol., \$25; other articles. AN 5-2597.

CHAIN SAW: Sears, 16 in. bar, new chain, \$65. 924-5093.

MISC.: Nautical decor massive nat'l formed wood knee braces from wrecked sea-going barge, weathered, grey, comp. w/hvy. iron fasten., approx. 24x48x6, \$35/pr. MO 9-6725.

VIBRAT. COUCH: W/heat, \$50. CH 9-1982, after 4:30.

TRAVEL TRLR.: '71 Dreamer, 13 ft., slps. 6, hyd. surge bks., comp. kit., full wardrobe, btl. gas & reg., heat., \$1,350. 931-8542.

MOBILE HOME: '68 King, 12x60, w-w, 2 bdrm., 1½ bath, 10x15 awn. w/porch, util, shed, comp. skirt, set up in pk. 727-7489.

TRK. CAMPER: Slps. 6, gas & elec. refrig., gas stove & broil., flush hd., \$1,700. TU 4-8626.

YAMAHA: 100cc twin cyl., 5,700 mi., direct. sig., '71, \$200. IV 6-4930.

WHLS.: 2 GM 14x5J for 7.35x14 or E78x14, for '64-'69 Buick, Chevy & some Pontiacs, \$10/pr. MA 7-7375.

RIMS: 2, 14 in. for '65 Chevy. 271-9891.

WHLS.: For VW, Ford, Chevy, etc. 567-3718.

SNOWS: E78x14 mtd., Gen'l, \$60/pr.; 8.25x14 mtd., Sears, \$35/pr.; Denman H78x15, \$45/pr. MO 9-4407.

WHLS.: 2 w/w, 4 holed, new, w/valves, \$10. WA 1-2978.

TIRES: 775x14 snows, nylon Vanderbilts w/Olds F-85 rims, used 2 season, \$25. 368-1819.

PARTS: VW, incl. eng., reason. 922-0740.

COTTAGE: Lake front, Crescent Lake, Unity, N.H., 7 acres, woods, 2 bdrm., 1 bath, h.w. heat, comp. furn., \$16,000. PE 1-6261.

HOUSE: 7 rm. split, 3 bdrm., 1½ bath, panel kit., den & bsmt., 60x100, \$38,000. OV 1-7469.

GUITAR: Galenti, elec., Garrod amp., \$200. JU 7-5238, after 6.



Togetherness. Vice President Tom Rozzi presents to Lenny Daconto (3rd L), manager of Plant 15 Buffeteria, a Project Sterling award for 'best food costs' over a six-month period. Others (L to R) are Sam Hill; Tommy Thompson, Buffeteria supervisor; Dick Kosse, director of Food Services; Dotty Geyer, Mary Ravegno, and Cathy Ippolito.

For Sale

HOUSE: Plainview, 4 bdrm., 2 bath cape, 12x24 fam. rm. add., w-w, part. fin. full bsmt., fenc. yd. w/patio, \$35,500 or \$13,000 cash over. 822-4374, after 6.

HOUSE: Hicksville, 3 bdrm. cape, 14x22 liv.-din. rm., eat-in-kit., fenc. yd., nr. everything, \$30,000. WE 5-4686.

PROPERTY: 1 acre So. Vt., Rte. 8, opp. Dutch Hill ski area, Alpenwald develop., yr. round swim., sauna, ctrl. locat. sev. ski areas, incl. Mt. Snow. 427-7344.

FURN.: Sofa & chr., \$100; 2 tbls., \$50; 2 lamps, \$40; 43 yd. rug, \$50; Regena fl. polish., \$15. JU 4-6090.

FURN.: Danish mod. couch w/end tbls. att., Mr. & Mrs. chrs., cocktail tbls., 2 lamps, \$100; formica tp. chest, 4 dwrs., \$35. 433-7472, evgs.

MISC.: Kitchenette set, 2 chrs., \$15; baby coach & car bd., \$25; auto. swing, jumpseat infant seat, \$10; dress. tbl. & match. bumpers, \$12.50; artif. Xmas tree, 6 ft., \$10; 8.25x14 GM tire rim. 692-4654.

MISC.: Tempo folk guitar; tire chains, fit 6:00x16, 6:70x15, 7.50x14; studio couch. 587-4420.

CAMERA OUTFIT: 8mm movie, proj., screen, editor, case & floodlight, Cine, \$65. 665-0851, after 5.

FLASH UNIT: For 35mm camera, Kakonet spec., transistorized, electronic, rechgable or batt. oper., \$25. 293-8039.

MOVIE CAMERA: 8mm Boley mod. D-8L, 12.5mm f1.9 lens on 3 lens turret mt., bit. in lite meter, \$55. 928-0588.

CAMERA EQUIP.: 75mm Rodenstock Omegaron enlarg. lens, new, \$35; 25 mm Rodenstock Omegaron enlarg. lens, new, \$40; 360 mm Voightlander Telomar lens for Linhoff, \$125; alum. case for 4x5 camera, \$40; cut & roll film hold. for 4x5 camera, \$20. GE 3-6145.

CAMERA & ACCESS.: Minolta autocord, twin lens reflex, f3.5 lens, 2¼ in. sq. format; close-up lens & case; filt., lens shade & case; Heliotron strobe; scuff-proof case for camera & equip., foam rub. insert in lid, ask. \$100. 483-2154.

WALL MIRROR: Walton, 40x60, \$25. CH 9-4007.

ARBOR PRESS: Bench type, Universal adapter plate, hvy. C frame, \$35. 744-6903.

UNICYCLE: Columbia, red, 24 in. whl., \$30. OR 1-0227, after 4.

DIAMOND: Round, 1 carat, wh., no discern. faults, appraised @ \$1,200, ask. \$750. 779-4535.

HOSPITAL BD.: Elec., side rails, fabreon matt. GE 3-5951.

GOLF CLUBS: Full set MacGregor w/bag & cov., \$75. JU 6-1765.

COAT: Fully let-out mink dyed muskrat, full lngth., sz. 12-14. 538-3829.

STOLE: Autcmn haze mink, \$100. RO 6-3995.

FISH TANK: 20 gal. lg., gravel, live plts., rocks, rock bkground, metal std., dynaflo motor filt. w/ mag. drive, \$40. 935-1280.

For Sale

SPKRS.: 2 Tannoy w/Lafayette bass reflex encll., \$140; Garrard llab 80 turntbl., \$30. 868-1389.

RAC. SET: Aurora, all access., 74 pc. trk., 11 cars. 785-6693, evgs.

TRAIN LAYOUT: N gauge, fold. legs, 2 transformers, 10 switches, 30° cross., 25 ft. main line, 6 sid., 18 bldgs., 3 eng., 25 frt. cars, Kadee couplers, ask. \$130. 724-0409.

TRAIN SET: Comp., HO gauge pwr. pac, 5 engs., 26 frt. cars, 6 pass., tunnel, bridge, 2 frgt. & 1 pass. sta., bldgs., switches, xtra track. At 6-0899.

HO TRAINS: 3 comp. ets w/layout brd., xtras. JU 7-5238.

FIREPL. SCRNL.: Port., 32x44, blk. w/gold handles, best offer. 234-7555.

PIANO: Starr, cherry, spinet, \$200. MO 5-3022.

SANDER: Craftsman, 6x48 belt, 9 in. disc, 3 in. drum, ball bear., metal tbl., \$50. RO 4-6887.

TOOLS: Precision calipers, micrometer, Starret, protractor, mach. comb. sq., 6 in.-12 in. ruler, all stainless steel. 669-4506, after 5.

DOOR: 32 in. sol. wood w/wind. & storm dr., \$25. 732-3103.

BREAKFRONT: Bleach. wal., mod., cane panel., \$55. HA 7-5271.

MISC.: Tan coat, hand knit, sz. 12-14; 2 hand knit dress., sz. 10-12, melon mohair, & tweedy tan turtle neck w/cable stitch., new lg. lngths, \$25/ea. 433-5750.

AIRPLANE: Midget Mustang, Lycoming O-290 G eng., 76 hr. TT, A/C & eng. pri. instru., slid. canopy, \$5,000. 305 636-5524.

plane
GRUMMAN
news

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Plant 77 turns out aerial tanker, Navy's vital 'pipeline in the sky'

(Continued from page 1)

During a recent tour of the Stuart facility, Capt. Louis Dittmar, A-6 Class Desk Officer, gave a similar judgment and called the Stuart operation "very efficient." And he added, "I can see why the Fleet is so impressed."

Words of praise also came from Cdr. Jack Burrows of NAVPRO, Bethpage. Burrows, NAVPRO program manager for KA-6D, remarked that "the periodic coordination and progress meetings held at Stuart have helped to insure on-time deliveries to the Fleet." Positive readings also came from Frank Tortorelli, NAVPRO Production Control supervisor; Al Coccio, NAVPRO, Quality Management Branch Head; and Tom Repetti, NAVPRO, Plant Clearance officer.

The basis for the praise is not simply that tanker refueling has been accomplished. That was expected. It's the ease of refueling that counts. One tanker recently transferred 20,000 pounds of fuel to six F-4s in just one 36-minute flight! Some 10 million pounds of fuel have been transferred since January.

Nor is the KA-6D Program the only

Company effort going on at Stuart. F-14 pylons have been made here since September, a dozen people worked on TAC-RV, in and out-of-production spares for the A-6 are being taken care of, and the plant is reworking OV-1D Mohawks to make them mission-ready. The Mohawks now have vastly improved sensor systems and an added back-up compass system; and, for the first time, have become true all-weather aircraft.

Looking ahead, there are prospects for more work at Stuart. E-2C wings are on the schedule for next year, and there's a possibility of overhauling and modifying several HU-16Bs.

The prevailing attitude at Grumman's Stuart facility is healthy, says Art Melrose, general manager at Plant 77. "The people are doing the job. Naturally, they'd like to see more work coming in. All of us would. But they're not 'down' because our workforce has been trimmed back. They believe there'll be an upswing, so morale is good, very good."

Perhaps that's part of why Stuart has a reputation for efficiency . . . part of why KA-6D has always been on schedule and within cost.



Stuart facility earns first Cogswell Award for industrial security



Outstanding. Plant 77 general manager, Art Melrose, (2nd R), accepts Cogswell Award from Capt. John Lipscomb of DCASR, Atlanta. George Tschudi, Stuart Security manager, is at left, B. H. Batchelor, Defense Supply Agency security chief, Orlando, at right.

Grumman's Plant 77 at Stuart, Florida, has been honored with the James S. Cogswell Award for "outstanding achievement in the Defense Industrial Security Program," in recognition of "excellent programs" in the area of security responsibility. Grumman Aerospace (Long Island) has won the Cogswell Award twice before, but this is the first time for an outlying individual plant. Maj. Gen. Robert H. McCutcheon, deputy director of Contract Administration Services, Defense Supply Agency, had praise for George Tschudi, Security manager at Stuart.

Last year two firms, General Dynamics of Fort Worth and Grumman, were honored as the first two-time winners of the award, demonstrating outstanding achievement among approximately 13,000 defense contractors.

Nominations for the 1971 awards were made by the commanders of the Defense Contract Administration Services Regions, with the coordination of the

contracting agencies of the Government. Nominations were carefully screened before selection of the ultimate recipients.

"It gives me great pleasure," General McCutcheon wrote to Plant 77 General Manager Art Melrose, "to inform you that your facility has been selected for an Outstanding Award for 1971. I wish to commend, for his personal efforts which have resulted in an overall Industrial Security Program worthy of this recognition, Mr. G. E. Tschudi, your Security Manager. My congratulations to you and all of your employees for this fine achievement."

Some of the areas in which firms are evaluated for the Cogswell Award are degree of security consciousness by management, security education and motivation programs, self-generated inspections of security practices, reviews of security procedures in an organization's publications.

Grumman Vice President Tom Rozzi is director of Corporate Security.

GRUMMAN, November 29, 1971